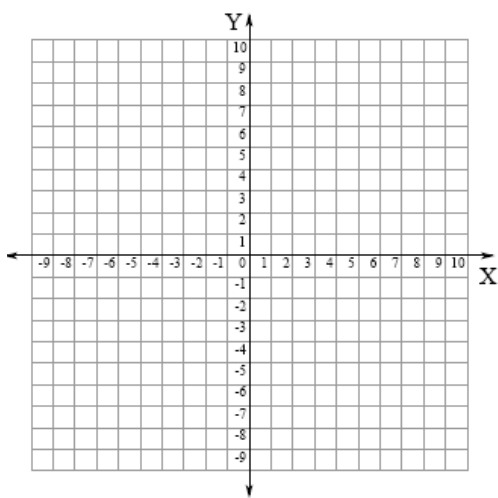
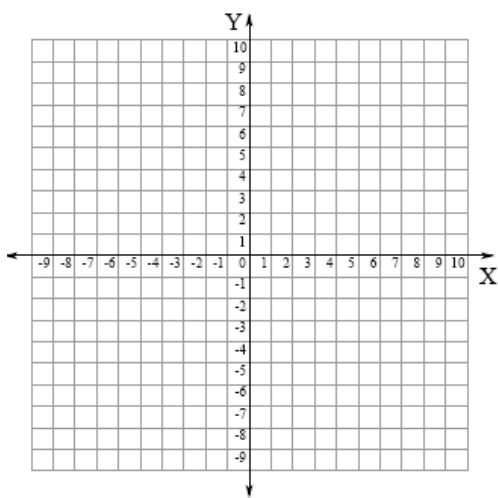


Lesson 9 – 2: The Reciprocal Function Family

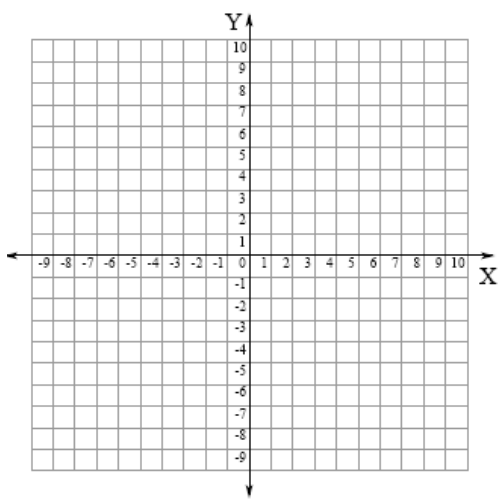
Sketch a graph of $y = \frac{6}{x}$.



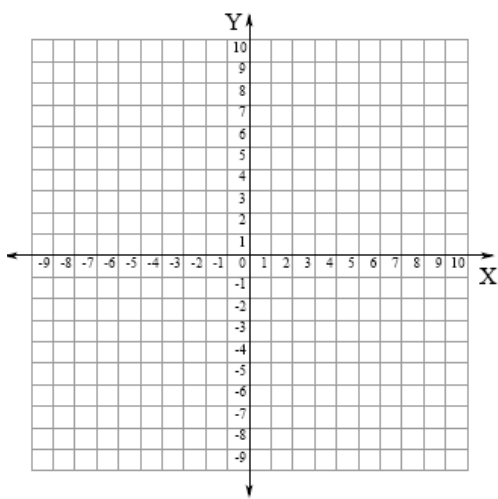
Sketch a graph of $y = \frac{16}{x}$.



Sketch a graph of $y = \frac{1}{x}$, $y = \frac{4}{x}$,
And $y = \frac{-4}{x}$ on the same plane.

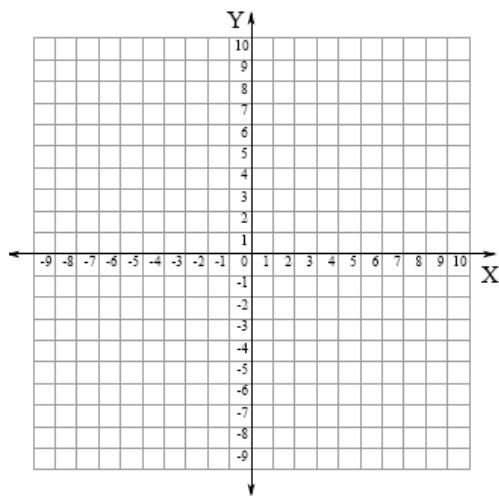
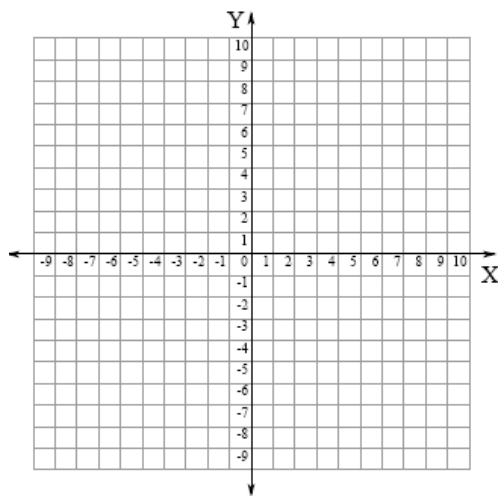


Sketch a graph of $y = \frac{0.5}{x}$ and
 $y = \frac{-0.5}{x}$ on the same plane.



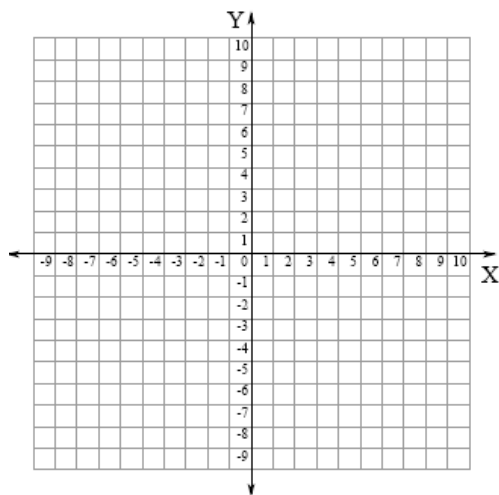
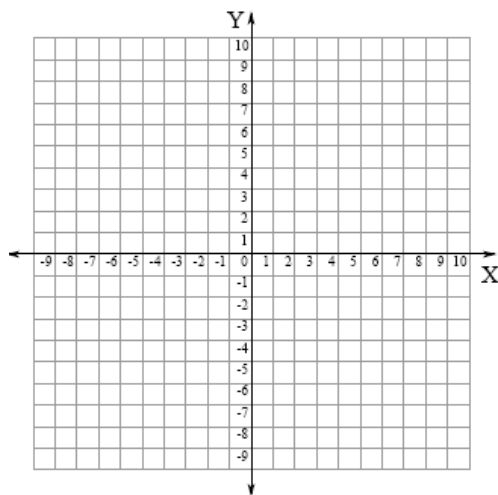
Sketch a graph of $y = \frac{1}{x}$, $y = \frac{1}{x-1}$,
and $y = \frac{1}{x+2}$ on the same plane.

Sketch a graph of $y = \frac{1}{x}$, $y = \frac{1}{x} + 1$,
and $y = \frac{1}{x} - 2$



Find the asymptotes and sketch
the graph of $y = -\frac{1}{x+7} - 3$.

Find the asymptotes and sketch
the graph of $y = \frac{1}{x-2} + 2$.



- Write the equation of the translation of $y = \frac{5}{x}$ that has asymptotes at $x = -2$ and $y = 3$.
- Write the equation of the translation of $y = \frac{5}{x}$ that has asymptotes at $x = 0$ and $y = 4$.
- Write the equation of the translation of $y = \frac{5}{x}$ that has asymptotes at $x = 4$ and $y = -8$.